

the LVM_SETITEM message. This asynchronous retrieval of the text or values is to ensure that there is no lag in displaying the items when there are numerous items.

[44] As stated above, the registry 602 is used to store the important properties for a particular file type. This data is stored in the TileInfo value under the key for a file class. The form of the data is "prop:<propname1>;<propname2>; . . . <propname-n>." By way of example only and not limitation, if the important properties for a .jpeg file are type and size, the structure will be as follows: My Computer -> HKEY_CLASSES_ROOT -> jpegfile Value: TileInfo Data: "prop:Type;Size" After DefView requests the important properties for a .jpeg file, the TileInfo string is parsed, and the property names are mapped to SHCOLUMNID identifiers used in DefView. To further improve performance, the series of SHCOLUMNIDs that define the important properties are cached on a per file type basis for future quick retrieval, as depicted at step 724 in Figure 7. When requested by ListView, DefView will map the SHCOLUMNIDs to the ListView column indices.

[45] It will be recognized that the illustrated embodiments can be modified in arrangement and detail without departing from the scope of the present invention. It should be understood that the programs, processes, or methods described herein are not related or limited to any particular type of computer apparatus, unless indicated otherwise. Various types of general purpose or specialized computer apparatus may be used with or perform operations in accordance with the teachings described herein. Elements of the illustrated embodiments shown in software may be implemented in hardware and vice versa. Therefore, to particularly point out and distinctly claim the subject matter regarded as the invention, the following claims conclude the specification.

CLAIMS

What is claimed is:

1. A method of providing a graphical user interface to an operating system of a computer having a video screen, comprising the steps of:

- a. providing an operating system user interface manipulable by a user,
 - b. providing a frame controlled by the operating system, the frame including a graphical representation of an item and at least one slot containing a user-selected property of the item, and
 - c. displaying a view of the frame on the video screen.
2. The method of claim 1 further comprising the step of displaying the view in a folder view display of a graphical environment on the video screen.
 3. The method of claim 1 further comprising the step of displaying the view in an array on the video screen.
 4. The method of claim 1 wherein the operating system sorts the frames by the user-selected property.
 5. The method of claim 1 wherein the frame provides a plurality of sortable properties of the item.
 6. An operating system of a computer having a video screen, comprising:
 - a default directory for storing information about an item,
 - a first control that provides a graphic user interface on the video screen, the first control retrieving the stored information from the default directory,
 - a second control that displays the information about the item on the video screen, the second control displays the information dynamically in a frame which is presented on the video screen, and
 - a user interface control manipulable by a user for requesting the display of the information on the video screen.

7. The operating system of claim 6 wherein the frame displays properties that identify the item.

8. The operating system of claim 7 wherein the frame displays a graphic representation of the item.

9. The operating system of claim 7 wherein the first control sorts the frames by one of the properties that identify the item.

10. A computer-readable medium having computer-executable instructions for performing steps comprising:

- a. a database component for storing properties of an item that are specific to the item,
- b. a first control component for providing a graphic user interface on a video screen,
- c. a second control component for displaying the properties of the item on the video screen,
- d. a user interface component manipulable by a user for requesting the display of the properties of the item on the video screen, and
- e. if the request to display the properties of the item on the video screen is received from the user:
 - i. the first control component retrieving the stored properties from the database component and sending the properties to the second control component, and
 - ii. the second control component displaying the properties dynamically in a frame on the video screen.

11. The computer-readable medium of claim 10 having computer-executable instructions wherein the user interface component requests the sort arrangement of the properties of the item on the video screen.

12. The computer-readable medium of claim 11 having computer-executable instructions for performing steps comprising:

receiving a sort request from the user,
sorting the properties by the sort request, and
displaying the sorted properties on the video screen.

13. In a computer system having a graphical user interface including a display and a user interface selection device, a method of selecting from a menu and providing specific properties about an item, comprising the steps of:

- a. displaying a set of menu entries including a tile menu entry,
- b. receiving a first menu entry execution signal indicative of the user interface selection device pointing at the tile menu entry on the display,
- c. displaying an arrange item menu entry including a set of cascade menu items associated therewith,
- d. receiving a menu entry selection signal indicative of the user interface selection device pointing at the arrange item menu entry on the display,
- e. in response to the selection signal, displaying the cascade menu items,
- f. receiving a second menu entry execution signal indicative of the user interface selection device pointing at one of the cascade menu items associated with the arrange item menu entry,

- g. in response to the first and second execution signals, retrieving from a default directory the specific properties of the item, and
 - h. displaying dynamically the properties of the item that are specific to that item in a tile format on the display, and
 - i. arranging the properties of the item on the display based on the selected one of the cascade menu items.
14. The method of claim 13 wherein the tile format is a user interface display which includes an icon and at least one row of item properties located adjacent to the icon.
15. The method of claim 13 wherein the tile format is a user interface display comprising an icon and two rows of item properties.
16. The method of claim 13 further comprising the steps of:
- a. receiving a third menu entry execution signal indicative of the user interface selection device pointing at the icon, and
 - b. in response to the third execution signal, opening the item represented by the icon.
17. The method of claim 13 wherein the item is a text file.
18. The method of claim 13 wherein the item is a music file.
19. The method of claim 13 wherein the item is an image file.